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 Gregg Rothermel, Mary Jean Harrold
 April 1997 **Transactions on Software Engineering and Methodology**
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Regression testing is an expensive but necessary maintenance activity p
 software to provide confidence that changes are correct and do not adv
 the software. A regression test selection technique choses, ...

Keywords: regression test selection, regression testing, selective retes




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 April 2008 **Communications of the ACM**
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 Full text available: [Digital Edition](#), [Pdf](#) (4.24 MB) **Additional Information:** full citation
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- Security as a new dimension in embedded system design**
 Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan / Sriyaths Ravi
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The growing number of instances of breaches in information security in
 created a compelling case for efforts towards secure electronic systems
 will be ubiquitously used to capture, store, manipulate, and ...


Keywords: PDAs, architectures, battery life, cryptography, design, des
 rights management, embedded systems, performance, security, securit
 protocols, sensors, software attacks, tamper resistance, trusted comput

- Agile enterprise software development using domain-driven design**




-  Einar Landre, Harald Wesenberg, Jørn Gimheim
 October 2007 **OOPSLA '07**: Companion to the 22nd SIGPLAN conference on programming systems and applications companion
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In this paper we present the experience gained and lessons learned when StatOil ASA, a large Oil and Gas company in Norway, applied Domain-Driven Design in combination with agile software development practices to assess ...

Keywords: PL/SQL, agile software development, domain-driven design, relational mapping, oracle, relational databases, test driven design, test




- 5 [Software Testing Research: Achievements, Challenges, Dreams](#)
 Antonia Bertolino
 May 2007 **FOSE '07**: 2007 Future of Software Engineering
Publisher: IEEE Computer Society
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Software engineering comprehends several disciplines devoted to prevent and to warrant adequate behaviour. Testing, the subject of this paper, is an approach in industry, but it is still largely ad hoc, expensive, ...

- 6 [Novice software developers, all over again](#)
 Andrew Begel, Beth Simon
 September 2008 **ICER '08**: Proceeding of the fourth international workshop on research
Publisher: ACM  Request Permissions
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Transitions from novice to expert often cause stress and anxiety and need support to enact efficiently. While many studies have looked at novice students, very little research has been conducted on professional ...

Keywords: computer science pedagogy, human aspects of software engineering development, training

- 7 [Flexible provisioning of web service workflows](#)
 Sebastian Stein, Terry R. Payne, Nicholas R. Jennings
 February 2009 **Transactions on Internet Technology (TOIT)**, Volume 9 Issue 1
Publisher: ACM  Request Permissions
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Web services promise to revolutionize the way computational resources

offered and invoked in open, distributed systems, such as the Internet, using machine-readable metadata, which enables consumer ...

Keywords: Web services, semantic Web services, service composition, oriented computing, workflows

8 [Information scraps: How and why information eludes our personal in tools](#)



Michael Bernstein, Max Van Kleek, David Karger, M. C. Schraefel
September 2008 **Transactions on Information Systems (TOIS)**, Volume :

Publisher: ACM [Request Permissions](#)

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In this article we investigate *information scraps*—personal information v scribbled on Post-it notes, scrawled on the corners of sheets of paper, s email messages to ourselves, and stashed ...

Keywords: Personal information management, information scraps, not

9 [The impact of software engineering research on modern programmin](#)



Barbara G. Ryder, Mary Lou Sofia, Margaret Burnett

October 2005 **Transactions on Software Engineering and Methodology**

Publisher: ACM [Request Permissions](#)

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Bibliometrics: Downloads (6 Weeks): 86, Downloads (12 Months): 507, Citat

Software engineering research and programming language design have relationship, with traceable impacts since the 1970s, when these areas one another. This report documents this relationship by ...

Keywords: Programming Languages, Software Engineering

10 [An agile development methodology applied to embedded control sof hardware constraints](#)



Lucas Cordeiro, Carlos Mar, Eduardo Valentin, Fabiano Cruz, Daniel Patrick Lucena

January 2008 **SIGSOFT Software Engineering Notes**, Volume 33 Issue 1

Publisher: ACM

Full text available: [Pdf](#) (499.75 KB) **Additional Information:** full citation, abstract, re


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In recent years, discrete control systems play an important role in the c advancement of modern civilization and technology. Practically every as some type of control systems. This kind of system maybe classified ...

Keywords: agile methodologies, embedded agile development, health


platform-based design, real-time software

11 TXM: an agile HW/SW development methodology for building medic

 Lucas Cordeiro, Raimundo Barreto, Rafael Barcelos, Meuse Oliveira, Vicente

November 2007 **SIGSOFT Software Engineering Notes** . Volume 32 Issue 6

Publisher: ACM


Full text available:  Pdf (547.61 KB) Additional Information: [full citation](#), [abstract](#), [in](#)

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Arterial oxygen saturation and heart rate measured by pulse oximetry in critical care patients. This kind of system is classified as embedded hardware and requires rigorous development methodologies to guarantee the ...

Keywords: agile methodologies, embedded agile development, health platform-based design, real-time software

12 Communications of the ACM: Volume 51 Issue 3

 March 2008 Communications of the ACM

Publisher: ACM


Full text available:  Digital Edition ,  Pdf (7.56 MB) Additional Information: [full citation](#)

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13 Communications of the ACM: Volume 51 Issue 7

 July 2008 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (6.54 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 3945, Downloads (12 Months): 6536, Citations

14 Risks to the public

 Peter G. Neumann

May 2005 **SIGSOFT Software Engineering Notes** . Volume 30 Issue 3


Publisher: ACM

Full text available:  Pdf (177.87 KB) Additional Information: [full citation](#), [abstract](#), [in](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 241, Citations


Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM SIGSOFT Risks Forum), plus personal contributions by others, as well as individual rather than organizational, and all of the usual ...

15 Designers wanted: participation and the user experience in open source

 Paula M. Bach, Robert DeLine, John M. Carroll

April 2009 **CHI '09: Proceedings of the 27th international conference on human factors in computing systems**

Publisher: ACM 

Full text available:  Pdf (4.33 MB) Additional Information: [full citation](#), [abstract](#), [in](#)


Bibliometrics: Downloads (6 Weeks): 113, Downloads (12 Months): 113, Citations

We present design concepts and related mockups that support the user

hosted on CodePlex, an open source project hosting website. Rationale grounded in the open source literature and a thirteen-week study ...


Keywords: codeplex, communities of practice, design, open source software user experience

16 [Process-centered review of object oriented software development](#)

 Raman Ramsin, Richard F. Paige

February 2008 **Computing Surveys (CSUR)** , Volume 40 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (2.86 MB)


Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 269, Downloads (12 Months): 2663, Citations

We provide a detailed review of existing object-oriented software development focusing on their development processes. The review aims at laying bare processes, and internal activities. This is done by using a ...

Keywords: Object-oriented methodologies, agile methods, integrated software engineering, seminal methodologies

17 [Queue: Volume 6 Issue 1](#)


 January 2008 Queue

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (6.04 MB) Additional Information: [full citation](#)


Bibliometrics: Downloads (6 Weeks): 112, Downloads (12 Months): 563, Citations

18 [Conscientious software](#)

 Richard P. Gabriel, Ron Goldman

October 2006 **OOPSLA '06: Proceedings of the 21st annual ACM SIGPLAN conference on programming systems, languages, and applications**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.52 MB)

Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 205, Citations


Software needs to grow up and become responsible for itself and its own own installation and customization, maintaining its own health, and adapting to circumstances, new users, and new uses. To create such software ...

Keywords: autopoiesis, continuous (re)design, emergence, feedback, self-sustaining systems, self-testing, software, software complexity, stigmergia

Also published in:


October 2006 **SIGPLAN Notices** Volume 41 Issue 10

19 [Using formal specifications to support testing](#)

 Robert M. Hierons, Kirill Bogdanov, Jonathan P. Bowen, Rance Cleaveland, Marian Gheorghe, Mark Harman, Kalpesh Kapoor, Paul Krause, Gerald Lütt, Sergiy Vilkov, Martin R. Woodward, Hussein Zedan

February 2009 **Computing Surveys (CSUR)** , Volume 41 Issue 2

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (729.47 KB) [Additional Information: full citation, abstract, re](#)

Bibliometrics: Downloads (6 Weeks): 350, Downloads (12 Months): 936, Cital

Formal methods and testing are two important approaches that assist in quality software. While traditionally these approaches have been seen as a new consensus has developed in which they are seen as complementary

Keywords: Software testing, formal methods

20 The information furnace: consolidated home control

Diomidis D. Spinellis

May 2003 **Personal and Ubiquitous Computing** , Volume 7 Issue 1

Publisher: Springer-Verlag

Full text available:  Pdf (488.36 KB) [Additional Information: full citation, abstract, re](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 112, Citat

The Information Furnace is a basement-installed PC-type device that integrates home-control, infotainment, security and communication technologies to accessible and value-added services. A modern home contains ...

Keywords: Automation, Consumer electronics, Home-control, Multi-mc

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